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1 [Low power SOC's and NOCs: High-level power analysis for on-chip networks](#)



Noel Eisley, Li-Shiuan Peh

 September 2004 **Proceedings of the 2004 international conference on Compilers, architecture, and synthesis for embedded systems**

Publisher: ACM Press

 Full text available: pdf(353.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As on-chip networks become prevalent in multiprocessor systems-on-a-chip and multi-core processors, they will be an integral part of the design flow of such systems. With power increasingly the primary constraint in chips, the tool chain in systems design, from simulation infrastructures to compilers and synthesis frameworks, needs to take network power into account, motivating the need for early-stage communication power analysis. While there has been substantial research in network performance ...

Keywords: link utilization, power analysis, simulation, systems-on-a-chip (SoC)

2 [Data dissemination and pervasive computing: Semantically driven service](#)


[interoperability for pervasive computing](#)

Declan O'Sullivan, David Lewis

 September 2003 **Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access**

Publisher: ACM Press

 Full text available: pdf(179.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The common vision of pervasive computing environments requires a very large range of devices and software components to interoperate seamlessly. From the assumption that these devices and associated software permeate the fabric of everyday life, a massive increase looms in the number of software developers deploying functionality into pervasive computing environments. This poses a very large interoperability problem for which solutions reliant solely on interoperability standards will not scale. ...

Keywords: DAML-S, pervasive computing, semantic interoperability, service composition, topic maps

3 [Application of high level interface-based design to telecommunications system hardware](#)



San fabric problem

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